

AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings, of claims in the application.

Claims 1-14. (Canceled)

15. (Currently Amended) A speech encoder comprising a dispersed-pulse codebook that generates a vector by convoluting a vector containing one or more one non-zero elements ~~(elements, elements~~ other than non-zero elements have values of ~~zero)~~ zero, and a fixed waveform called a ~~“dispersion pattern”~~ comprising a dispersion pattern, wherein said dispersed-pulse codebook has a configuration different from ~~that a~~ a configuration of the dispersed-pulse codebook on the speech decoder side.

16. (Currently Amended) The speech encoder according to claim 15, wherein the a dispersion pattern storage section, which is comprises a component of the dispersed-pulse codebook, stores dispersion patterns different from ~~these~~ dispersion patterns stored in the a dispersion pattern storage section on the speech decoder side.

17. (Original) The speech encoder according to claim 16, wherein the dispersion pattern storage section stores dispersion patterns obtained by simplifying and selecting dispersion patterns stored in the dispersion pattern storage section on the speech decoder side.

18. (Original) The speech encoder according to claim 16, wherein the dispersion pattern storage section stores dispersion patterns obtained by replacing components of dispersion patterns stored in the dispersion pattern storage section on the speech decoder side with zero at certain intervals.

19. (Currently Amended) The speech encoder according to claim 16, wherein the dispersion pattern storage section stores dispersion patterns obtained by replacing components of dispersion patterns stored in the dispersion pattern storage section on the speech decoder side with zero for every N samples (~~N: natural number~~), where N is a natural number.

20. (Original) The speech encoder according to claim 19, wherein the dispersion pattern storage section stores dispersion patterns obtained by replacing components of dispersion patterns stored in the dispersion pattern storage section on the speech decoder side with zero for every 1 sample.

21. (Original) The speech encoder according to claim 16, wherein the dispersion pattern storage section stores dispersion patterns obtained by truncating components of dispersion patterns stored in the dispersion pattern storage section on the speech decoder side at an appropriate length.

22. (Currently Amended) The speech encoder according to claim 16, wherein the dispersion pattern storage section stores dispersion patterns obtained by truncating components of dispersion patterns stored in the dispersion pattern storage section on the speech decoder side at a length of N samples (~~N: natural number~~), where N is a natural number.

23. (Original) The speech encoder according to claim 16, wherein the dispersion pattern storage section stores dispersion patterns obtained by truncating components of dispersion patterns stored in the dispersion pattern storage section on the speech decoder side at a half length.

24. (Original) A speech decoder that decodes a speech signal having a speech code generated by the speech encoder according to claim 15.

25. (Original) A signal processing processor containing a software program that implements the speech encoder according to claim 15.

26. (Original) A signal processing processor containing a software program that implements the speech decoder according to claim 24.

27. (Currently Amended) A speech encoding/decoding system comprising a speech encoder ~~and/or~~ and a speech decoder each having a dispersed-pulse codebook in a configuration different from each other.

28. (Original) The speech encoding/decoding system according to claim 27, wherein the difference in the configuration of the dispersed-pulse codebook between the speech encoder and the speech decoder lies in the shape of dispersion patterns stored in the respective dispersed-pulse codebooks.

29. (Currently Amended) The speech encoding/decoding system according to claim 28, wherein the shapes of dispersion patterns of the speech encoder are obtained by simplifying ~~the~~ a shape of dispersion patterns of the speech decoder.

30. (Original) The speech encoding/decoding system according to claim 27, wherein the shapes of dispersion patterns of the speech encoder are obtained by replacing components of the dispersion patterns of the speech decoder with zero at appropriate intervals.

31. (Currently Amended) The speech encoding/decoding system according to claim 27, wherein the shapes of dispersion patterns of the speech encoder are obtained

by replacing components of the dispersion patterns of the speech decoder with zero every N samples (~~N: natural number~~), where N is a natural number.

32. (Original) The speech encoding/decoding system according to claim 31, wherein the shapes of dispersion patterns of the speech encoder are obtained by replacing components of the dispersion patterns of the speech decoder with zero every 1 sample.

33. (Original) The speech encoding/decoding system according to claim 27, wherein the shapes of dispersion patterns of the speech encoder are obtained by truncating components of the dispersion patterns of the speech decoder at an appropriate length.

34. (Currently Amended) The speech encoding/decoding system according to claim 27, wherein the shapes of dispersion patterns of the speech encoder are obtained by truncating components of the dispersion patterns of the speech decoder at a length of N samples (~~N: natural number~~), where N is a natural number.

35. (Original) The speech encoding/decoding system according to claim 27, wherein the shapes of dispersion patterns of the speech encoder are obtained by truncating components of the dispersion patterns of the speech decoder at a half length.

36. (Original) A communication base station equipped with the signal processing processor according to claim 25.

37. (Original) A communication terminal equipped with the signal processing processor according to claim 25.

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38. (Previously Presented) A radio communication system that connects the communication base station according to claim 36 with a communication terminal via a radio network.